

# SEQUENCE LISTING

<110> Temple University-Of the Commonwealth System of Higher  
Education  
Lankenau Institute of Medical Research  
Wilson, Cagla  
Dessain, Scott

<120> ERADICATION OF BACTERIAL BIOFILM USING ANTI-AMYLOID MONOCLONAL  
ANTIBODIES

<130> 206017-0178-00W0

<150> US 62/676,390

<151> 2018-05-25

<160> 63

<170> PatentIn version 3.5

<210> 1

<211> 457

<212> DNA

<213> Artificial Sequence

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<223> Chemically Synthesized, ALZ.3H3 Heavy Chain

<400> 1

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| tgtgcagcct ctggattctc cttcagtacc tatggcatgc actgggtccg ccaggctcca | 180 |
| ggcaaggggc tggagtgggt ggcagttatt tcatatgatg gaagtaggaa atactatgca | 240 |
| gacaccggga agggccgatt caccatctcc agagacaact ccaagaacac gctgtatttg | 300 |
| gaaatgaacg gcctgagagc tgaagacacg gctgtgtatc actgtgcgaa agatcttaga | 360 |
| cgagaactcg ggtttggcaa tcgggactat cactattatg gtatggacgc ctggggccaa | 420 |
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<400> 2

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Leu Leu Arg Gly  
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Val Gln Cys Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln  
20 25 30

Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe  
35 40 45

Ser Thr Tyr Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu  
50 55 60

Glu Trp Val Ala Val Ile Ser Tyr Asp Gly Ser Arg Lys Tyr Tyr Ala  
65 70 75 80

Asp Thr Gly Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn  
85 90 95

Thr Leu Tyr Leu Glu Met Asn Gly Leu Arg Ala Glu Asp Thr Ala Val  
100 105 110

Tyr His Cys Ala Lys Asp Leu Arg Arg Glu Leu Gly Phe Gly Asn Arg  
115 120 125

Asp Tyr His Tyr Tyr Gly Met Asp Ala Trp Gly Gln Gly Thr Thr Val  
130 135 140

Thr Val Ser Ser Ala Ser Thr Lys  
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<210> 3

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<220>

<223> Chemically Synthesized, ALZ.3H3 Heavy Chain variable region

<400> 3

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ccaggcaagg ggctggagtg ggtggcagtt atttcatatg atggaagtag gaaatactat 180  
gcagacaccg ggaagggccg attcaccatc tccagagaca actccaagaa cacgctgtat 240  
ttggaaatga acggcctgag agctgaagac acggctgtgt atcactgtgc gaaagatctt 300  
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<210> 4  
<211> 133  
<212> PRT  
<213> Artificial Sequence

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<223> Chemically Synthesized, ALZ.3H3 Heavy Chain variable region

<400> 4

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Ser Thr Tyr  
20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Arg Lys Tyr Tyr Ala Asp Thr Gly  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Glu Met Asn Gly Leu Arg Ala Glu Asp Thr Ala Val Tyr His Cys  
85 90 95

Ala Lys Asp Leu Arg Arg Glu Leu Gly Phe Gly Asn Arg Asp Tyr His  
100 105 110

Tyr Tyr Gly Met Asp Ala Trp Gly Gln Gly Thr Thr Val Thr Val Ser  
115 120 125

Ser Ala Ser Thr Lys  
130

<210> 5  
<211> 461  
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<223> Chemically Synthesized, Heavy Chain (nucleotide) with 4nt before  
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<400> 5  
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ctcctgtgca gcctctggat tctccttcag tacctatggc atgcactggg tccgccaggc 180  
tccaggcaag gggctggagt ggggtggcagt tatttcatat gatggaagta ggaaatacta 240  
tgacagacc gggaagggcc gattcaccat ctccagagac aactccaaga acacgctgta 300  
tttgaaatg aacggcctga gagctgaaga cacggctgtg tatcactgtg cgaaagatct 360  
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tcctgtgcag cctct 75

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<220>  
<223> Chemically Synthesized, FR1

<400> 7

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
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Ser Leu Arg Leu Ser Cys Ala Ala Ser  
20 25

<210> 8  
<211> 24  
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<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, CDR1

<400> 8  
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<210> 9  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, CDR1

<400> 9

Gly Phe Ser Phe Ser Thr Tyr Gly  
1 5

<210> 10  
<211> 51  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, FR2

<400> 10  
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<210> 11  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, FR2

<400> 11

Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala  
1 5 10 15

Val

<210> 12

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Chemically Synthesized, CDR2

<400> 12

atttcatatg atggaagtag gaaa

24

<210> 13

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically Synthesized, CDR2

<400> 13

Ile Ser Tyr Asp Gly Ser Arg Lys  
1 5

<210> 14

<211> 114

<212> DNA

<213> Artificial Sequence

<220>

<223> Chemically Synthesized, FR3

<400> 14

tactatgcag acaccgggaa gggccgattc accatctcca gagacaactc caagaacacg

60

ctgtatttgg aaatgaacgg cctgagagct gaagacacgg ctgtgtatca ctgt

114

<210> 15

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically Synthesized, FR3

<400> 15

Tyr Tyr Ala Asp Thr Gly Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn  
1 5 10 15

Ser Lys Asn Thr Leu Tyr Leu Glu Met Asn Gly Leu Arg Ala Glu Asp  
20 25 30

Thr Ala Val Tyr His Cys  
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<210> 16

<211> 66

<212> DNA

<213> Artificial Sequence

<220>

<223> Chemically Synthesized, CDR3

<400> 16

gcgaaagatc ttagacgaga actcgggttt ggcaatcggg actatcacta ttatggtatg 60

gacgcc 66

<210> 17

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically Synthesized, CDR3

<400> 17

Ala Lys Asp Leu Arg Arg Glu Leu Gly Phe Gly Asn Arg Asp Tyr His  
1 5 10 15

Tyr Tyr Gly Met Asp Ala  
20

<210> 18

<211> 72

<212> DNA

<213> Artificial Sequence

<220>

<223> Chemically Synthesized, JUNCTION

<400> 18

tgtgcgaaag atcttagacg agaactcggg tttggcaatc gggactatca ctattatggt 60

atggacgcct gg 72

<210> 19

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically Synthesized, JUNCTION

<400> 19

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Ala | Lys | Asp | Leu | Arg | Arg | Glu | Leu | Gly | Phe | Gly | Asn | Arg | Asp | Tyr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Tyr | Tyr | Gly | Met | Asp | Ala | Trp |
|     |     |     | 20  |     |     |     |     |

<210> 20

<211> 11

<212> DNA

<213> Artificial Sequence

<220>

<223> Chemically Synthesized, 3'V-REGION

<400> 20

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<210> 21

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically Synthesized, 3'V-REGION

<400> 21

Cys Ala Lys  
1

<210> 22  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, N1-REGION

<400> 22  
tcttagacga ga

12

<210> 23  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, N1-REGION

<400> 23

Leu Arg Arg  
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<210> 24  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, D-REGION

<400> 24  
actcgggttt gg

12

<210> 25  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, D-REGION

<400> 25

Leu Gly Phe  
1

<210> 26

<211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Chemically Synthesized, N2-REGION  
  
 <400> 26  
 caatcgggac tatcactat 19

<210> 27  
 <211> 6  
 <212> DNA  
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 <223> Chemically Synthesized, N2-REGION

<220>  
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 <400> 27  
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<210> 28  
 <211> 18  
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 <213> Artificial Sequence  
  
 <220>  
 <223> Chemically Synthesized, 5'J-REGION  
  
 <400> 28  
 tatggtatgg acgcctgg 18

<210> 29  
 <211> 6  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Chemically Synthesized, 5'J-REGION  
  
 <400> 29

Tyr Gly Met Asp Ala Trp  
 1 5

<210> 30  
<211> 48  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, J-REGION

<400> 30  
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48

<210> 31  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, J-REGION

<400> 31

Tyr Gly Met Asp Ala Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser  
1 5 10 15

<210> 32  
<211> 33  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, FR4

<400> 32  
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33

<210> 33  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, FR4

<400> 33

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser  
1 5 10

<210> 34

<211> 591  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Chemically Synthesized, ALZ.3H3 Light Chain

<400> 34

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tggaaccaac agtgatattg gtggttataa ttatgtctcc tggtaccaac aacacccagg      120
caaagcccc aaactcatga tttatgatgt ctataagcgg ccctcagggg tccctgatcg      180
cttctctggc tccaagtctg gcaacacggc ctccctgacc atctctgggc tccaggctga      240
ggatgaggct gattactact gctgctcata tgcaggcacc aacaatttga tattcggcgg      300
agggaccaag ctgaccgtcc taggtcagcc caaggctgcc ccctcgggtca ctctgttccc      360
gccctcctct gaggagcttc aagccaacaa ggccacactg gtgtgtctca taagtgactt      420
ctacccggga gccgtgacag tggcctggaa ggcagatagc agccccgtca aggcgggagt      480
ggagaccacc acaccctcca aacaaagcaa caacaagtac gcggccagca gctatctgag      540
cctgacgcct gagcagtgga agtcccacag aagctacagc tgccagggtca c              591
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<210> 35  
<211> 196  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Chemically Synthesized, ALZ.3H3 Light Chain

<400> 35

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Leu Thr Gln Pro Arg Ser Val Ser Gly Ser Pro Gly Gln Ser Val Thr
1              5              10             15
```

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Met Ser Cys Thr Gly Thr Asn Ser Asp Ile Gly Gly Tyr Asn Tyr Val
      20              25             30
```

```
Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr
      35              40             45
```

```
Asp Val Tyr Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser
      50              55             60
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Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Cys Ser Tyr Ala Gly Thr Asn Asn Leu  
85 90 95

Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln Pro Lys Ala  
100 105 110

Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu Leu Gln Ala  
115 120 125

Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr Pro Gly Ala  
130 135 140

Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys Ala Gly Val  
145 150 155 160

Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr Ala Ala Ser  
165 170 175

Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His Arg Ser Tyr  
180 185 190

Ser Cys Gln Val  
195

<210> 36  
<211> 67  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, FR1

<400> 36  
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tggaacc 67

<210> 37  
<211> 22  
<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically Synthesized, FR1

<400> 37

Ala Asp Ser Ala Ser Leu Ser Val Arg Val Ser Trp Thr Val Ser Asn  
1 5 10 15

His Val Leu His Trp Asn  
20

<210> 38

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Chemically Synthesized, CDR1

<400> 38

aacagtgata ttggtggta taattat

27

<210> 39

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically Synthesized, CDR1

<400> 39

Asn Ser Asp Ile Gly Gly Tyr Asn Tyr  
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<210> 40

<211> 51

<212> DNA

<213> Artificial Sequence

<220>

<223> Chemically Synthesized, FR2

<400> 40

gtctcctggt accaacaaca cccaggcaaa gcccccaaac tcatgattta t

51

<210> 41

<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, FR2

<400> 41

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile  
1 5 10 15

Tyr

<210> 42  
<211> 9  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, CDR2

<400> 42  
gatgtctat

9

<210> 43  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, CDR2

<400> 43

Asp Val Tyr  
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<210> 44  
<211> 108  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, FR3

<400> 44  
aagcggccct caggggtccc tgatcgcttc tctggctcca agtctggcaa cacggcctcc

60

ctgaccatct ctgggctcca ggctgaggat gaggctgatt actactgc

108

<210> 45

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<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically Synthesized, FR3

<400> 45

Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly  
1 5 10 15

Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala  
20 25 30

Asp Tyr Tyr Cys  
35

<210> 46

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Chemically Synthesized, CDR3

<400> 46

tgctcatatg caggcaccaa caatttgata

30

<210> 47

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically Synthesized, CDR3

<400> 47

Cys Ser Tyr Ala Gly Thr Asn Asn Leu Ile  
1 5 10

<210> 48

<211> 36

<212> DNA

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<223> Chemically Synthesized, JUNCTION

<400> 48

tgctgctcat atgcaggcac caacaatttg atattc

36

<210> 49

<211> 12

<212> PRT

<213> Artificial Sequence

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<223> Chemically Synthesized, JUNCTION

<400> 49

Cys Cys Ser Tyr Ala Gly Thr Asn Asn Leu Ile Phe

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5

10

<210> 50

<211> 29

<212> DNA

<213> Artificial Sequence

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<223> Chemically Synthesized, 3'V-REGION

<400> 50

tgctgctcat atgcaggcac caacaattt

29

<210> 51

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically Synthesized, 3'V-REGION

<400> 51

Cys Cys Ser Tyr Ala Gly Thr Asn Asn

1

5

<210> 52

<211> 33

<212> DNA

<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, J-REGION

<400> 52  
tattcggcgg agggaccaag ctgaccgtcc tag

33

<210> 53  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, J-REGION

<400> 53

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
1 5 10

<210> 54  
<211> 31  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, FR4

<400> 54  
ttcggcggag ggaccaagct gaccgtccta g

31

<210> 55  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, FR4

<400> 55

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
1 5 10

<210> 56  
<211> 381  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, ALZ.4A6 Heavy Chain

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caggtccaac tgggtgcaatc tggggctgaa gtgaagaagc ctggggcctc aatgagagtc 60  
tcctgcaagg cttctgggta cacctacacc gcctactata tacattggat gcgacaggcc 120  
cctggacaag ggcttgagtg gatgggatgg atcaaccccc acattggctc cacaaattat 180  
gcggagaagt ttcgcggcag ggtcaccttg accagagaca cgtccatcaa gacagcctac 240  
atggatctcg acaggctgac gtctgacgac acggccatat attactgtgc gagagtccga 300  
gcccccgga gtataagtgg aactctcaac tcttacggaa tggacgtctg gggccaaggg 360  
accacggtcg ccgtctcttc a 381

<210> 57  
<211> 127  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, ALZ.4A6 Heavy Chain

<400> 57

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Met Arg Val Ser Cys Lys Ala Ser Gly Tyr Thr Tyr Thr Ala Tyr  
20 25 30

Tyr Ile His Trp Met Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Asn Pro His Ile Gly Ser Thr Asn Tyr Ala Glu Lys Phe  
50 55 60

Arg Gly Arg Val Thr Leu Thr Arg Asp Thr Ser Ile Lys Thr Ala Tyr  
65 70 75 80

Met Asp Leu Asp Arg Leu Thr Ser Asp Asp Thr Ala Ile Tyr Tyr Cys  
85 90 95

Ala Arg Val Arg Ala Pro Arg Ser Ile Ser Gly Thr Leu Asn Ser Tyr  
100 105 110

Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Ala Val Ser Ser  
115 120 125

<210> 58  
<211> 321  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, ALZ.4A6 Light Chain

<400> 58  
gacatcgtga tgaccagtc tccttcgtcc ctgtctgcat ctgtgggaga cagggtcgtc 60  
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gggagagccc ccaaactcct ggtgtcttct gcgtccactt tgcaaagtgg cgtcccatca 180  
aggttcagtg gcagtggatc tgggacggat ttcactctca ccattaacag tctgcaacct 240  
gaagattttg caacttacta ctgtcaacag agttacagta ccacgtggac attcggccaa 300  
gggaccaagg tggaactcaa a 321

<210> 59  
<211> 107  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically Synthesized, ALZ.4A6 Light Chain

<400> 59

Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
1 5 10 15

Asp Arg Val Val Ile Thr Cys Arg Ala Ser Leu Arg Ile Gly Thr Phe  
20 25 30

Leu Asn Trp Tyr Gln Gln Thr Gln Gly Arg Ala Pro Lys Leu Leu Val  
35 40 45

Ser Ser Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly  
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn Ser Leu Gln Pro

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65  |     |     |     |     | 70  |     |     |     |     |     | 75  |     |     |     | 80  |
| Glu | Asp | Phe | Ala | Thr | Tyr | Tyr | Cys | Gln | Gln | Ser | Tyr | Ser | Thr | Thr | Trp |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |

|     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Phe | Gly | Gln | Gly | Thr | Lys | Val | Glu | Leu | Lys |
|     |     | 100 |     |     |     |     |     | 105 |     |     |

<210> 60  
 <211> 387  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Chemically Synthesized, ALZ.4G1 Heavy Chain

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| <400> 60                                                           |     |
| gaggagcacc tggtggagtc tgggggagcc ttggtccagc ctgggggggtc cctgagactc | 60  |
| tcctgtgaag cctctggatt cacctttcgt agttattgga tgacctgggt ccgccaggct  | 120 |
| ccaggaagg ggctggaatg gctggccaac atcaaacaag atggaagtga ctattactat   | 180 |
| gtcgactctg tgaagggccg attcaccatc tccagagaca acgccaagaa tacactatat  | 240 |
| ctgcagatga acaacctgag agccgacgac acggccgttt atttttgtgc gagagatgcg  | 300 |
| agatatcggg acactacctg gccgcaatac tatttttact acttcatgga cgtctggggc  | 360 |
| aaggggacca cggtcaccgt ctcctca                                      | 387 |

<210> 61  
 <211> 129  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Chemically Synthesized, ALZ.4G1 Heavy Chain

<400> 61

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Glu | His | Leu | Val | Glu | Ser | Gly | Gly | Ala | Leu | Val | Gln | Pro | Gly | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Leu | Arg | Leu | Ser | Cys | Glu | Ala | Ser | Gly | Phe | Thr | Phe | Arg | Ser | Tyr |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Met | Thr | Trp | Val | Arg | Gln | Ala | Pro | Gly | Lys | Gly | Leu | Glu | Trp | Leu |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

35

40

45

Ala Asn Ile Lys Gln Asp Gly Ser Asp Tyr Tyr Tyr Val Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Asn Leu Arg Ala Asp Asp Thr Ala Val Tyr Phe Cys  
 85 90 95

Ala Arg Asp Ala Arg Tyr Arg Asp Thr Thr Trp Pro Gln Tyr Tyr Phe  
 100 105 110

Tyr Tyr Phe Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser  
 115 120 125

Ser

<210> 62

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<223> Chemically Synthesized, ALZ.4G1 Light Chain

<400> 62

gacatccagt tgaccagtc tccatcctcc ctgtctgcct ctataggcga cagagtcacc 60

gtcacttgcc gggccagtca gagcattagt aattatttaa attggtatca gcagaaacca 120

gggaaagccc ctaaactcct gatctatgct gcatccaatt tgcatactgg ggtcccatcg 180

aggttcagtg gcagtgggtc tgggacacat tttactctca ccatcagcag tctgcaacct 240

gaagattttg caacttacta ctgtcaactg agttacaata acccgagaac tttcggccct 300

gggaccacag tggatatcag a 321

<210> 63

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically Synthesized, ALZ.4G1 Light Chain

<400> 63

Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Ile Gly  
1 5 10 15

Asp Arg Val Thr Val Thr Cys Arg Ala Ser Gln Ser Ile Ser Asn Tyr  
20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile  
35 40 45

Tyr Ala Ala Ser Asn Leu His Thr Gly Val Pro Ser Arg Phe Ser Gly  
50 55 60

Ser Gly Ser Gly Thr His Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Leu Ser Tyr Asn Asn Pro Arg  
85 90 95

Thr Phe Gly Pro Gly Thr Thr Val Asp Ile Arg  
100 105